

RAW SEQUENCE LISTING

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Application Serial Number: 10/656,895A
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PATENT APPLICATION: US/10/656,895A

DATE: 10/20/2005

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Input Set : A:\TJU0007-103.ST25.txt

Output Set: N:\CRF4\10202005\J656895A.raw

3 <110> APPLICANT: Waldman, Scott A.
 4 Pearlman, Joshua M.
 5 Barber, Michael T.
 6 Schulz, Stephanie
 7 Parkinson, Scott J.

9 <120> TITLE OF INVENTION: Compositions that Specifically Bind to Colorectal Cancer

Cells

10 and Methods of Using the Same
 12 <130> FILE REFERENCE: 08321-0152 CT1 (TJU0007-103)
 14 <140> CURRENT APPLICATION NUMBER: 10/656,895A
 15 <141> CURRENT FILING DATE: 2003-09-05
 17 <150> PRIOR APPLICATION NUMBER: US 09/649,697
 18 <151> PRIOR FILING DATE: 2000-08-28
 20 <150> PRIOR APPLICATION NUMBER: US 08/908,643
 21 <151> PRIOR FILING DATE: 1997-08-07
 23 <160> NUMBER OF SEQ ID NOS: 82
 25 <170> SOFTWARE: PatentIn version 3.3
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 1636
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Artificial Sequence
 32 <220> FEATURE:
 33 <223> OTHER INFORMATION: Synthetic Construct
 35 <400> SEQUENCE: 1
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 40 tgactgtgaa cgctactttc atgtattcgg atggctctgat tcataactca ggcgactgcc 180
 42 ggagtagcac ctgtgaaggc ctcgacacctac tcagggaaat ttcaaatgca caacggatgg 240
 44 gctgtgtcct catagggccc tcatgtacat actccaccc ttcaaatgca caacggatgg 300
 46 aattgagcta ccccatgatc tcagctggaa gttttggatt gtcatgtgac tataaagaaaa 360
 48 ccttaaccag gctgtatgtcc ccagctagaa agttgatata cttcttggtt aactttggaa 420
 50 aaaccaacga tctgcccttc aaaacttatt cctggagcac ttcgtatgtt tacaagaatg 480
 52 gtacagaaac tgagggactg tttctggatc cttaatgctc tggaggctag cgtttcctat 540
 54 ttctcccacg aactcggtt taaggtgggt ttaagacaag ataaggaggat tcagatatc 600
 56 ttaatggacc acaacaggaa aagcaatgtt attattatgt gtgggtggcc agagttcctc 660
 58 tacaagctga agggtgaccg agcagtggct gaagacatttgc tcattattttt agtggatctt 720
 60 ttcaatgacc agtacttggaa ggacaatgtc acagccctt actatatgaa aatgtccctt 780
 62 gttctgacgc tggatccctt ggaattccctt tctaaatagc tctttctcca ggaatctatc 840
 64 accaacaacaa cggacttttgc ctcttgcctt tttgaatggaa atcctgtctt ttggacatata 900
 66 gctgaagata tttcttggaaa atggagaaaaa tattaccacc cccaaatttgc ctcatgtttt 960
 68 caggaatctc acttttggaa ggtatgacgg tccagtgacc ttggggatgac tggggggatg 1020
 70 ttgacagtttacatggatccctt ccgttataacc ctctgtggac accaagaat acaaggttct 1080
 72 ttggacacttat gataccacg ttaataagaa ctatcctgtg gatatgagcc ccacattcac 1140
 74 ttggaagaac tctaaacttc ctaatgtat tacaggccgg ggcctcaga tcctgtatgtat 1200

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76 tgcagtcttc accctcaactg gagctgtgg gctgctcctg ctcgtcgctc tcctgatgct 1260
 78 cagaaaatat agaaaagatt atgaacttcg tcagaaaaaa tggtcccaca ttcctcctga 1320
 80 aaatatctt cctctggaga ccaatgagac caatcatgtt agcctcaaga tcgatgatga 1380
 82 caaaagacga gatacaatcc agagactacg acagtgcaaa tacgacaaaaa agcgagtgtat 1440
 84 tctcaaagat ctcaagcaca atgatggtaa tttcactgaa aaacagaaga tagaattgaa 1500
 86 caagttgctt cagaaagact attacaacct gaccaagttc tacggcacag taaaacttga 1560
 88 taccatgatc ttcgggggtga tagaatactg tgagagagga tcccctccgg gaagttttaa 1620
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 95 <212> TYPE: DNA
 96 <213> ORGANISM: Artificial Sequence
 98 <220> FEATURE:
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 102 atgaagacgt tgctgttgaa cttggctttg tggtcactgc tcttccatcc cgggtggctg 60
 104 tcctttagtt cccaggcc 78
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 108 <211> LENGTH: 26
 109 <212> TYPE: PRT
 110 <213> ORGANISM: Artificial Sequence
 112 <220> FEATURE:
 113 <223> OTHER INFORMATION: Synthetic Construct
 115 <400> SEQUENCE: 3
 117 Met Lys Thr Leu Leu Asp Leu Ala Leu Trp Ser Leu Leu Phe His
 118 1 5 10 15
 121 Pro Gly Trp Leu Ser Phe Ser Ser Gln Ala
 122 20 25
 125 <210> SEQ ID NO: 4
 126 <211> LENGTH: 372
 127 <212> TYPE: DNA
 128 <213> ORGANISM: Artificial Sequence
 130 <220> FEATURE:
 131 <223> OTHER INFORMATION: Synthetic Construct
 133 <400> SEQUENCE: 4
 134 atgtatttcgg atggctctgat tcataactca ggcgactgcc ggagtagcac ctgtgaaggc 60
 136 ctcgacctac tcagaaaaat ttcaaatgca caacggatgg gctgtgtcct catagggccc 120
 138 tcatgtacat actccacctt ccagatgtac cttgacacag aattgagcta ccccatgatc 180
 140 tcagctggaa gttttggatt gtcatgtgac tataaagaaa ccttaaccag gctgatgtct 240
 142 ccagctgaga agttgatata cttcttgggtt aacttttggaa aaaccaacga tctgcccttc 300
 144 aaaacttatt cctggagcac ttctgtatgtt tacaagaatg gtacagaaac tgagggactg 360
 146 ttctctggta ct 372
 149 <210> SEQ ID NO: 5
 150 <211> LENGTH: 124
 151 <212> TYPE: PRT
 152 <213> ORGANISM: Artificial Sequence
 154 <220> FEATURE:
 155 <223> OTHER INFORMATION: Synthetic Construct
 157 <400> SEQUENCE: 5

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Input Set : A:\TJU0007-103.ST25.txt
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159 Met Tyr Ser Asp Gly Leu Ile His Asn Ser Gly Asp Cys Arg Ser Ser
 160 1 5 10 15
 163 Thr Cys Glu Gly Leu Asp Leu Leu Arg Lys Ile Ser Asn Ala Gln Arg
 164 20 25 30
 167 Met Gly Cys Val Leu Ile Gly Pro Ser Cys Thr Tyr Ser Thr Phe Gln
 168 35 40 45
 171 Met Tyr Leu Asp Thr Glu Leu Ser Tyr Pro Met Ile Ser Ala Gly Ser
 172 50 55 60
 175 Phe Gly Leu Ser Cys Asp Tyr Lys Glu Thr Leu Thr Arg Leu Met Ser
 176 65 70 75 80
 179 Pro Ala Arg Lys Leu Ile Tyr Phe Leu Val Asn Phe Trp Lys Thr Asn
 180 85 90 95
 183 Asp Leu Pro Phe Lys Thr Tyr Ser Trp Ser Thr Ser Tyr Val Tyr Lys
 184 100 105 110
 187 Asn Gly Thr Glu Thr Glu Gly Leu Phe Leu Val Pro
 188 115 120
 191 <210> SEQ ID NO: 6
 192 <211> LENGTH: 276
 193 <212> TYPE: DNA
 194 <213> ORGANISM: Artificial Sequence
 196 <220> FEATURE:
 197 <223> OTHER INFORMATION: Synthetic Construct
 199 <400> SEQUENCE: 6
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 202 acagaattga gctacccat gatctcagct ggaagtttg gattgtcatg tgactataaa 120
 204 gaaaccttaa ccaggtctgat gtctccagct agaaagttaa tatacttctt ggttaacttt 180
 206 tggaaaacca acgatctgcc cttcaaaact tattcctgga gcacttcgta tgtttacaag 240
 208 aatggtacag aaactgaggg actgtttctg gtacct 276
 211 <210> SEQ ID NO: 7
 212 <211> LENGTH: 92
 213 <212> TYPE: PRT
 214 <213> ORGANISM: Artificial Sequence
 216 <220> FEATURE:
 217 <223> OTHER INFORMATION: Synthetic Construct
 219 <400> SEQUENCE: 7
 221 Met Gly Cys Val Leu Ile Gly Pro Ser Cys Thr Tyr Ser Thr Phe Gln
 222 1 5 10 15
 225 Met Tyr Leu Asp Thr Glu Leu Ser Tyr Pro Met Ile Ser Ala Gly Ser
 226 20 25 30
 229 Phe Gly Leu Ser Cys Asp Tyr Lys Glu Thr Leu Thr Arg Leu Met Ser
 230 35 40 45
 233 Pro Ala Arg Lys Leu Ile Tyr Phe Leu Val Asn Phe Trp Lys Thr Asn
 234 50 55 60
 237 Asp Leu Pro Phe Lys Thr Tyr Ser Trp Ser Thr Ser Tyr Val Tyr Lys
 238 65 70 75 80
 241 Asn Gly Thr Glu Thr Glu Gly Leu Phe Leu Val Pro
 242 85 90
 245 <210> SEQ ID NO: 8
 246 <211> LENGTH: 228

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247 <212> TYPE: DNA
 248 <213> ORGANISM: Artificial Sequence
 250 <220> FEATURE:
 251 <223> OTHER INFORMATION: Synthetic Construct
 253 <400> SEQUENCE: 8

254 atgtaccttg acacagaatt gagctacccc atgatctcg ctggaagttt tggattgtca	60
256 tgtgactata aagaaacctt aaccaggctg atgtctccag ctagaaagtt gatatacttc	120
258 ttggtaact tttggaaaac caacgatctg cccttcaaaa cttattcctg gagcacttcg	180
260 tatgtttaca agaatggtag agaaactgag ggactgttgc tggtacct	228

263 <210> SEQ ID NO: 9
 264 <211> LENGTH: 76
 265 <212> TYPE: PRT
 266 <213> ORGANISM: Artificial Sequence
 268 <220> FEATURE:
 269 <223> OTHER INFORMATION: Synthetic Construct
 271 <400> SEQUENCE: 9

273 Met Tyr Leu Asp Thr Glu Leu Ser Tyr Pro Met Ile Ser Ala Gly Ser	
274 1 5 10 15	
277 Phe Gly Leu Ser Cys Asp Tyr Lys Glu Thr Leu Thr Arg Leu Met Ser	
278 20 25 30	
281 Pro Ala Arg Lys Leu Ile Tyr Phe Leu Val Asn Phe Trp Lys Thr Asn	
282 35 40 45	
285 Asp Leu Pro Phe Lys Thr Tyr Ser Trp Ser Thr Ser Tyr Val Tyr Lys	
286 50 55 60	
289 Asn Gly Thr Glu Thr Glu Gly Leu Phe Leu Val Pro	
290 65 70 75	

293 <210> SEQ ID NO: 10
 294 <211> LENGTH: 198
 295 <212> TYPE: DNA
 296 <213> ORGANISM: Artificial Sequence
 298 <220> FEATURE:
 299 <223> OTHER INFORMATION: Synthetic Construct
 301 <400> SEQUENCE: 10

302 atgatctcg ctggaagttt tggattgtca tgtgactata aagaaacctt aaccaggctg	60
304 atgtctccag ctagaaagtt gatatacttc ttggtaact tttggaaaac caacgatctg	120
306 cccttcaaaa cttattcctg gagcacttcg tatgtttaca agaatggtag agaaactgag	180
308 ggactgttgc tggtacct	198

311 <210> SEQ ID NO: 11
 312 <211> LENGTH: 66
 313 <212> TYPE: PRT
 314 <213> ORGANISM: Artificial Sequence
 316 <220> FEATURE:
 317 <223> OTHER INFORMATION: Synthetic Construct
 319 <400> SEQUENCE: 11

321 Met Ile Ser Ala Gly Ser Phe Gly Leu Ser Cys Asp Tyr Lys Glu Thr	
322 1 5 10 15	
325 Leu Thr Arg Leu Met Ser Pro Ala Arg Lys Leu Ile Tyr Phe Leu Val	
326 20 25 30	
329 Asn Phe Trp Lys Thr Asn Asp Leu Pro Phe Lys Thr Tyr Ser Trp Ser	

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333	Thr Ser Tyr Val Tyr Lys Asn Gly Thr Glu Thr Glu Gly Leu Phe Leu			
334	50	55	60	
337	Val Pro			
338	65			
341	<210> SEQ ID NO: 12			
342	<211> LENGTH: 138			
343	<212> TYPE: DNA			
344	<213> ORGANISM: Artificial Sequence			
346	<220> FEATURE:			
347	<223> OTHER INFORMATION: Synthetic Construct			
349	<400> SEQUENCE: 12			
350	atgtctccag ctagaaagtt gatatacttc ttggtaact tttggaaaac caacgatctg	60		
352	cccttcaaaa cttattcctg gagcacttcg tatgttaca agaatggtag agaaactgag	120		
354	ggactgtttc tggtacct	138		
357	<210> SEQ ID NO: 13			
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360	<213> ORGANISM: Artificial Sequence			
362	<220> FEATURE:			
363	<223> OTHER INFORMATION: Synthetic Construct			
365	<400> SEQUENCE: 13			
367	Met Ser Pro Ala Arg Lys Leu Ile Tyr Phe Leu Val Asn Phe Trp Lys			
368	1 5 10 15			
371	Thr Asn Asp Leu Pro Phe Lys Thr Tyr Ser Trp Ser Thr Ser Tyr Val			
372	20 25 30			
375	Tyr Lys Asn Gly Thr Glu Thr Glu Gly Leu Phe Leu Val Pro			
376	35 40 45			
379	<210> SEQ ID NO: 14			
380	<211> LENGTH: 27			
381	<212> TYPE: DNA			
382	<213> ORGANISM: Artificial Sequence			
384	<220> FEATURE:			
385	<223> OTHER INFORMATION: Synthetic Construct			
387	<400> SEQUENCE: 14			
388	atgcacaacg gatgggctgt gtcctca	27		
391	<210> SEQ ID NO: 15			
392	<211> LENGTH: 9			
393	<212> TYPE: PRT			
394	<213> ORGANISM: Artificial Sequence			
396	<220> FEATURE:			
397	<223> OTHER INFORMATION: Synthetic Construct			
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402	1 5			
405	<210> SEQ ID NO: 16			
406	<211> LENGTH: 30			
407	<212> TYPE: DNA			
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/656,895A

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